

PARALLEL AND DISTRIBUTED COMPUTATION

NUMERICAL METHODS



DIMITRI P. BERTSEKAS JOHN N. TSITSIKLIS

Parallel And Distributed Computation Numerical Methods Bdk English Tripitaka Paperback

International Business Machines Corporation. Research Division, Geoff Cheshire, Vijay K. Naik

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Parallel and Distributed Computation: Numerical Methods Dimitri Bertsekas, John Tsitsiklis, 2015-03-01 This highly acclaimed work first published by Prentice Hall in 1989 is a comprehensive and theoretically sound treatment of parallel and distributed numerical methods. It focuses on algorithms that are naturally suited for massive parallelization and it explores the fundamental convergence rate of convergence, communication and synchronization issues associated with such algorithms. This is an extensive book which, aside from its focus on parallel and distributed algorithms, contains a wealth of material on a broad variety of computation and optimization topics. It is an excellent supplement to several of our other books, including Convex Optimization Algorithms (Athena Scientific 2015), Nonlinear Programming (Athena Scientific 1999), Dynamic Programming and Optimal Control (Athena Scientific 2012), Neuro Dynamic Programming (Athena Scientific 1996) and Network Optimization (Athena Scientific 1998). The on-line edition of the book contains a 95-page solutions manual.

Models for Parallel and Distributed Computation Ricardo Corrêa, 2002-06-30 This book focuses on advanced techniques used in the design of efficient parallel programs. It presents a wide variety of different models of parallel and distributed computation and applications of these models to the design of efficient algorithms to solve numerical and non-numerical problems. It contains general and specific texts about advanced algorithms for parallel computation and gathers together the state of the art on parallelism with contributions from researchers actively working with parallel computation. Its chapters cover a broad variety of models ranging from abstract shared memory models such as PRAM to more realistic models of distributed memory including CGM, LogP and BSP. To the best of our knowledge, no other book in the literature covers state of the art about parallel models as approached in this special edition.

Audience Practitioners, researchers and graduate students in Computer Science, Mathematics, Engineering and Sciences.

Models for Parallel and Distributed Computation R. Correa, Ines de Castro Dutra, Mario Fiallos, Luiz Fernando Gomes da Silva, 2013-06-29 Parallel and distributed computation has been gaining a great deal of attention in the last decades. During this period, the advances attained in computing and communication technologies and the reduction in the costs of those technologies played a central role in the rapid growth of the interest in the use of parallel and distributed computation in a number of areas of engineering and sciences. Many actual applications have been successfully implemented in various platforms, varying from pure shared memory to totally distributed models, passing through hybrid approaches such as distributed shared memory architectures. Parallel and distributed computation differs from classical sequential computation in some of the following major aspects: the number of processing units, independent local clock for each unit, the number of memory units and the programming model. For representing this diversity and depending on what level we are looking at the problem, researchers have proposed some models to abstract the main characteristics or parameters: physical components or logical mechanisms of parallel computers. The problem of establishing a suitable model is to find a reasonable trade off among simplicity, power of expression and

universality Then be able to study and analyze more precisely the behavior of parallel applications **PARALLEL AND DISTRIBUTED COMPUTING** BASU, S. K. ,2016-01-02 This concise text is designed to present the recent advances in parallel and distributed architectures and algorithms within an integrated framework Beginning with an introduction to the basic concepts the book goes on discussing the basic methods of parallelism exploitation in computation through vector processing super scalar and VLIW processing array processing associative processing systolic algorithms and dataflow computation After introducing interconnection networks it discusses parallel algorithms for sorting Fourier transform matrix algebra and graph theory The second part focuses on basics and selected theoretical issues of distributed processing Architectures and algorithms have been dealt in an integrated way throughout the book The last chapter focuses on the different paradigms and issues of high performance computing making the reading more interesting This book is meant for the senior level undergraduate and postgraduate students of computer science and engineering and information technology The book is also useful for the postgraduate students of computer science and computer application Key features Each chapter is explained with examples or example systems as the case may be to make the principles methods involved easily understandable Number of exercises are given at the end of each chapter for helping the reader to have better understanding of the topics covered A large number of journal articles are highlighted to help the students interested in studying further in this field

Parallel and Distributed Computing ,1988 Parallel Numerical Computation with Applications Laurence Tianruo Yang,1999-09-30 Parallel Numerical Computations with Applications contains selected edited papers presented at the 1998 Frontiers of Parallel Numerical Computations and Applications Workshop along with invited papers from leading researchers around the world These papers cover a broad spectrum of topics on parallel numerical computation with applications such as advanced parallel numerical and computational optimization methods novel parallel computing techniques numerical fluid mechanics and other applications related to material sciences signal and image processing semiconductor technology and electronic circuits and systems design This state of the art volume will be an up to date resource for researchers in the areas of parallel and distributed computing **An Environment for Parallel and Distributed Computation with Application to Overlapping Grids** International Business Machines Corporation. Research Division,Geoff Cheshire,Vijay K. Naik,1993

Large Scale Applications on Distributed-memory Parallel Computers Using Efficient Numerical Methods Andrew Gareth Sunderland,2000 A Calculus of Distributed and Parallel Processes Clemens H. Cap,2012-03-14 This book introduces a process calculus for parallel distributed and reactive systems It describes the conceptual foundations as well as the mathematical theory behind a programming language and a number of application examples The chosen approach provides a framework for understanding the semantics of parallel and distributed systems Moreover it can be directly applied to practical problems

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